

Attorney Docket No.  
000287-004830Serial No.:  
08/709,965

Applicant: PHILIP S. GREEN

Filing Date: 09/09/96

Group: 2615

## Reference Designation

## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
AA	3,818,125	06/74	Butterfield	178	6.5	
AB	3,921,445	11/75	Hill et al.	73	133R	
AC	3,923,166	12/02/75	Fletcher et al.	901	2	
AD	3,934,201	01/20/76	Majetski	381	14	
AE	4,349,837	09/14/82	Hinds	358	93	
AF	4,510,574	04/09/85	Guittet et al.	901	2	
AG	4,582,067	04/86	Silberstein	128	663	
AH	4,562,463	12/85	Lipton	358	88	
AI	4,583,117	08/86	Lipton et al.	358	92	
AJ	4,651,201	03/17/87	Schoolman	358	98	
AK	4,750,475	06/88	Yoshihashi	128	6	
AL	4,837,734	06/06/89	Ichikawa et al.	901	2	
AM	4,855,822	08/89	Narendar et al.	358	103	
AN	4,862,873	09/89	Yajima et al.	128	6	
AO	4,899,730	02/13/90	Stennert et al.	128	4	
AP	4,922,338	05/01/90	Arpino	358	93	
AQ	4,941,106	07/90	Krieger	364	513	
AR	4,942,539	07/90	McGee et al.	364	513	
AS	3,463,329	05/67	Gartner	214	1	
AT	2,815,697	12/57	A.E. Saunders-Singer	88	40	
AU	5,045,936	09/03/91	Lobb et al.	358	98	

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub-class	Translation (yes/no)
AV	3806190 ✓	09/88	Germany	Ho4N	13/02	NO
AW	2040134 ✓	08/80	UK	H4F		YES
AX	0 595 291-A1 ✓	10/93	Europe	B25J	9/10	YES
AY	0 239 409 A1 ✓	03/87	Europe	A61F	9/00	YES
AZ	86 00852 ✓	01/86	France	B25J	11/00	NO
BA	2 460 762 ✓	01/79	France	B25J	3/02	NO
BB	28 19 976 ✓	05/78	Germany	F16M	1/00	NO
BC	0 291 292 A2 ✓	05/88	Europe	F16H	21/44	YES
BD	2117732 ✓	10/83	UK	B25J	9/00	YES

ROOM

BE	2 593 106	07/87 DEC	France	B25J	11/00
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>					
BF	A.D. Alexander, IIE, "Impacts of Telemation on Modern Society", *, <u>1st CISM-IFTO MM SYMPOSIUM</u> , Vol. 2, pp. 122-136. (9/1973)				
BG	A.K. Bejczy et al, "Controlling Remote Manipulators Through Kinesthetic Coupling", 1983, <u>Computers in Mechanical Engineering</u> , pp. 48-60.				
BH	Fisher et al., "Virtual Interface Environment", 1986, <u>Proceedings IEEE/AIAA 7th Digital Avionics Systems Conference</u> , pp. 346-350.				
BI	Hald et al., "Telepresence, Time Delay and Adaptation", *, <u>Spatial Displays and Spatial Instruments Proceedings of a Conference sponsored by NASA Ames Research Center and the School of Optometry, Univ. of California</u> , pp. 28-1 through 28-16.				
BJ	Kim et al., "A Helmet Mounted Display for Telerobotics", 1988, <u>33 IEEE Computer Society International Conference, California</u> , pp. 543-547.				
BK	B. M. Jau, "Anthropomorphic Remoter Manipulator", 1991, <u>NASA Tech Briefs</u> , pg. 92. (4/91)				
BL	K. Matsushima, "Servo Micro Manipulator Tiny Micro Mark-1", 1982, <u>4th Symposium on Theory and Practice of Robots and Manipulators</u> , pp. 193-201.				
BM	R. Richter, "Telesurgery may Bridge Future Gaps", 1988, <u>Times Tribune</u> , Sunday, January 24, pp. A-1 and A-16.				
BN	E. H. Spain, "Stereo Advantage for a Peg-In-Hole Task Using Force-Feedback Manipulator", 1990, <u>Stereoscopic Displays and Applications</u> , pp. 244-254.				
BO	Tachi et al., "Tele-existence Master Slave System for Remote Manipulation", 1990, <u>Proceedings of the 29th Conference on Decision and Control</u> , Vol. 1 of 6, pp. 85-90.				
BP	"Introduction t a New Project for The National Research Development Program (Large-Scale Project) in FY 1991 - Micromachine Technology", 1991, <u>Agency of Industrial Science and Technology Ministry of International Trade and Industry, Japan</u> , pp. 1-11.				
BQ	"Another Pair of Hands for Surgeon?" 1972, <u>The Blue Cross magazine Perspective</u> , pg. 27.				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1449.WP 4/95

Examiner

10/8/97

Date Considered

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT  
(Use several sheets if necessary)

Applicant:  
PHILIP S. GREEN

Filing Date:  
September 9, 1996

Group:  
~~3302~~ 2615

## Reference Designation

## U.S. PATENT DOCUMENTS

Page 1 of 4

Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
<i>M</i> AA	1,418,184	05/30/22	Trunick	-----	-----	
<i>M</i> AB	2,901,258	08/25/59	Brandafi	-----	-----	
<i>M</i> AC	3,145,333	08/18/64	Pardini et al.	-----	-----	
<i>M</i> AD	4,113,115	09/12/78	Yoshio	-----	-----	
<i>M</i> AE	4,260,319	04/07/81	Motoda et al.	-----	-----	
<i>M</i> AF	4,264,266	04/28/81	Trechsel	-----	-----	
<i>M</i> AG	4,419,041	12/06/83	Rose	-----	-----	
<i>M</i> AH	4,562,463	12/31/85	Lipton	-----	-----	
<i>M</i> AI	4,636,138	01/13/87	Gorman	-----	-----	
<i>M</i> AJ	4,744,363	05/17/88	Hasson	-----	-----	
<i>M</i> AK	4,751,925	06/21/88	Tontarra	-----	-----	
<i>M</i> AL	4,762,455	08/09/88	Coughlan et al.	-----	-----	
<i>M</i> AM	4,808,898	02/28/89	Pearson	-----	-----	

EXAMINER

DATE CONSIDERED

*10/18/87*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT  
(Use several sheets if necessary)

Applicant:  
PHILIP S. GREEN

Filing Date:  
September 9, 1996

Group: 2615  
3302

## Reference Designation

## U.S. PATENT DOCUMENTS

Page 2 of 4

Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
<u>M</u> BA	4,873,572	10/10/89	Miyazaki et al.			
<u>M</u> BB	4,947,702	08/14/90	Kato			
<u>M</u> BC	5,002,418	03/26/91	McCown et al.			
<u>M</u> BD	5,020,933	06/04/91	Salvestro et al.			
<u>M</u> BE	5,060,532	10/29/91	Barker			
<u>M</u> BF	5,062,761	11/05/91	Glachet			
<u>M</u> BG	5,078,140	01/07/92	Kwoh			
<u>M</u> BH	5,096,236	03/17/92	Thony			
<u>M</u> BI	5,141,519	08/25/92	Smith et al.			
<u>M</u> BJ	5,142,930	09/01/92	Allen et al.			
<u>M</u> BK	5,219,351	06/15/93	Teubner et al.			
<u>M</u> BL	5,236,432	08/17/93	Matsen, III et al.			
<u>M</u> BM	5,253,706	10/19/93	Reid			
<u>M</u> BN	5,257,998	11/02/93	Ota et al.			
<u>M</u> BO	5,260,319	11/09/93	Effland et al.			
<u>M</u> BP	5,264,266	11/23/93	Yokoyama et al.			
<u>M</u> BQ	5,273,039	12/28/93	Fujiwara et al.			
<u>M</u> BR	5,279,309	01/18/94	Taylor et al.			
<u>M</u> BS	5,281,220	01/25/94	Blake, III			

EXAMINER

*Alfred Lee*

DATE CONSIDERED

*10/8/97*

FORM PTO-1449 (Modified)

Attorney Docket No.  
00287-004830USSerial No.:  
08/709, 965LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S  
INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)Applicant:  
PHILIP S. GREENFiling Date:  
September 9, 1996Group: 2615  
3302

## Reference Designation

## U.S. PATENT DOCUMENTS

Page 3 of 4

Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
CA	5,284,130	02/08/94	Ratliff			
CB	5,325,866	07/05/94	Krzyzanowski			
CC	5,339,799	08/23/94	Kami et al.			
CD	5,397,323	03/14/95	Taylor et al.			
CE	5,425,528	06/20/95	Rains et al.			
CF	5,441,505	08/15/95	Nakamura			
CG	5,474,566	12/12/95	Alesi et al.			
CH	5,480,409	01/02/96	Riza			
CI	5,636,138	06/03/97	Gilbert et al.			

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub-class	Translation (yes/no)
CJ	4 213 426	10/29/92	Germany			Abstract
CK	482 439	01/30/70	Switzerland			No
CL	WO 92/16141	10/01/92	PCT			Yes

EXAMINER

DATE CONSIDERED

10/18/97

FORM PTO-1449 (Modified)

Attorney Docket No.  
00287-004830USSerial No.:  
08/709,965LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S  
INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)Applicant:  
PHILIP S. GREENFiling Date:  
September 9, 1996Group:  
~~3302~~ 2615

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) Page 4 of 4

<i>M</i> DA	Asada Haruhiko et al., "Development of a Direct-Drive Arm Using High Torque Brushless Motors," Chapter 7, pp. 583-599.
<i>M</i> DB	Guerrouad Aicha et al., "S.M.O.S.: Stereotaxical Microtelemanipulator for Ocular Surgery," <i>IEEE Engineering in Medicine &amp; Biology Society</i> , 11th Annual International Conference, 1989, Medical Applications of Robotics, Track 16: Biorobotics, pp. 879-880.
<i>M</i> DC	Kazerooni H., "Design and Analysis of the Statically Balanced Direct-Drive Robot Manipulator," <i>Robotics &amp; Computer-Integrated Manufacturing</i> , 1989, Volume 6, Number 4, pp. 287-293.
<i>M</i> DD	Ng. W. S. et al., "Robotic Surgery," <i>IEEE Engineering in Medicine and Biology</i> , March 1993, pp. 120-125.
<i>M</i> DE	Taubes Gary, "Surgery in Cyberspace," <i>Discover</i> , December 1994, pp. 85-92.
<i>M</i> DF	Taylor Russell H. et al., "A Telerobotic Assistant for Laparoscopic Surgery," <i>Engineering in Medicine and Biology</i> , May-June 1995, pp. 279-288.
<i>M</i> DG	Trevelyan James P. et al., "Motion Control for a Sheep Shearing Robot," <i>IEEE Robotics Research Conference</i> , the 1st International Symposium, Carroll, NH, USA, Conference Date: August 25, 1983, Conference No. 05357, Publication by MIT Press, pp. 175-190.

EXAMINER

*Stan Lee*

DATE CONSIDERED

*10/8/97*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1449.WP